

Description

Field Of The Invention:

This invention relates to an easily assembled and repairable plastic lightweight shipping pallet.

Technical Field:

This present invention relates to various shipping pallets and more particularly to an easily assembled and repairable plastic shipping pallet that includes two or more plastic runner rails (fig.4) each including multiple top and bottom pegs for board mounting. When two or more plastic runner rails (fig.4) are secured to multiple plastic cross boards (fig.5&6) top and bottom you form a pallet (fig.1).

Background Of The Invention:

Wooden pallets can be expensive, often break and become unusable after one or more uses, and can create disposal problems. Therefore, it would be desirable to have “my invention” a repairable plastic pallet that could/can be used for multiple uses and if damaged, repaired on site. My invention is a repairable plastic pallet that is recyclable, eliminating a disposal problem. This repairable plastic pallet is durable enough to transport goods from one destination to another worldwide. Also, a forklift and/or pallet jack can be used to lift or move this plastic pallet (unloaded or loaded) from place to place.

General Summary Discussion of The Invention:

It is thus an object of the invention to provide an easily assembled and repairable plastic

pallet (fig.1) that includes two or more plastic runner rails (fig.2&4), with multiple top/bottom molded on pegs (fig4) for board mounting (fig.5&6). When two or more plastic runner rails (fig.2&4) are secured to multiple cross boards (fig.5&6) you form a pallet (fig.1). Accordingly, an easily assembled and repairable plastic shipping pallet (fig.1) is provided.

Brief Description of Drawings

For a further understanding of the nature and objects of the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings. This drawing is to be used for an illustrated purpose only.

- * Figure 1 shows the view of the assembled pallet.
- * Figure 2 shows the view of the pallet with no slats/boards on top, and shows mounted on plastic pegs.
- * Figure 2A (Added) shows the molded on plastic locking device used to secure board in place. This figure was added because it coincides with figure 5 & 6.
- * Figure 3 shows the side view of the pallet.
- * Figure 4 shows the top & side view of runner rail, shows notches used for 4-way entry when pallet is assembled, and it shows molded on pegs top & bottom.
- * Figure 5 shows board/slat, holes for mounted on pegs to fit into, and locking device slot that is open all the way through.
- * Figure 6 shows board/slat, holes for mounted on pegs to fit into, but **does not show** slot for locking device.

Figures 1 through 6 show various aspects of an exemplary embodiment of the easily assembled

and repairable plastic shipping pallet (fig.1) of the present invention. Easily assembled and repairable plastic shipping pallet (fig.1) includes two or more plastic runner rails (fig.2&4) and multiple plastic cross boards (fig.5&6). The preceding description (using fig.2-6) show an easily assembled and repairable plastic pallet (fig.1) has been provided.

It is noted that the embodiment of the easily assembled and repairable plastic shipping pallet (fig.1) described here in detail for exemplary purposes is , of course, subject to many different variations in structure, design, application and methodology. Because many varying and different embodiments may be made within the scope of the inventive concept (s) herein taught, and because many modifications may be made in the embodiment herein detailed in accordance with the descriptive requirements of the law, it is to be understood that the details herein are to be interpreted as illustrative and not in a limiting sense.

Description of Preferred Embodiments: (Added) This section was added to get a better understanding on how to put together and take apart this repairable plastic pallet.

Assembly Of The Repairable Plastic Pallet:

“Board/Slat (fig.6) will be used in conjunction with runner/rail (fig.4) to form an assembled pallet (fig.1)”.

Step 1: Refer to drawing (fig.4) of a runner/rail.

- A. “I suggest assembling bottom side first”. Take 3 runner/rails (fig.4) placing on a flat surface notch side up.
- B. Be sure pegs are facing in same direction.
- C. Only on one end of each runner/rail, the first 2 pegs are turned in opposite direction than the others. (When the board (fig.6) is mounted this prevents the jarring loose caused by a the entrance of a forklift or pallet jack).

Step 2: Refer to drawing (fig.6) of a board/slat.

- A. The board/slat (fig.6) will only go on in one direction.
- B. Place the board/slat (fig.6) on the runner/rail (fig.4).
- C. At this point the pegs on the runner/rail (fig.4) should be flush with top of board/slat (fig.1).
- D. Board/Slat (fig.6) should be resting flush on runner/rail (fig.1).
- E. Now slide board/slat (fig.6) with slight force, so that the molded on locking device shown in (fig.2a not shown in fig.2) is engaged in slot hidden in board/slat (fig.6).
- F. Now board/slat (fig.6) is secure & in place.

- G. Repeat step 2 until all boards/slats are on bottom & then turn pallet over see (fig.2).
- H. Repeat step 2 until all boards/slats are on top refer to (fig1)- your assembled repairable plastic pallet.

How To Disassemble The Pallet:

Step 1: Remove a board/slat (fig6) from a runner/rail (fig4).

- A. To remove a board/slat (fig.6) use slight force, push/pull “depending on the direction of board” in opposite direction. This procedure will disengage molded on plastic locking device shown in (fig.2a not shown in fig 2).

B. Now board is removable.

Step 2: Runner/rail (fig.4) removal.

- A. To remove a runner/rail (fig.4) all boards/slats (fig.6) must be completely removed.
- B. Now you have a fully disassembled pallet.